

# Module test software status

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## Current Status

- Active obsolete version lt\_0\_09 not compatible with current basic daq software and new qt.
- New version beta tested in December. But now there is a beta version with higher performance (based on the newest DIM packaged)
- New version for beta testing at the end of this week.
- ~ 1 other beta testers needed.
- Release after freezing data base tables (and tested)

# New release (1)

- New
  - Connectivity test
  - Window for filling in module ID's etc.
  - Corrections for new data base format
    - FED data will be stored multiplied by a factor 10
  - Faster
  - Removed bugs
  - New settings.xml defaults (according DRAFT test procedure).
  - Bar code id can be used

## New release (2)

- Based on “new” basic daq distribution  
[http://cmsdoc.cern.ch/cms/cmt/System\\_aspects/Daq/](http://cmsdoc.cern.ch/cms/cmt/System_aspects/Daq/)
  - Easy to install with scripts
- Consequences
  - Two software platforms are supported
    - CERN RedHat 7.2 kernel 2.4
    - Debian woody kernel 2.2
  - Only qt3 and qwt 0.4 are supported
  - Root 3.03 , Xerces 1.6.0

# Beta Test

Testing for this and next releases becomes enormous time consuming. What it is :

- Is everything working as expected and as described in the manuals?
  - Scenario's
  - Module test , long term test
  - Pedestal, calprof test, backplane test, IV test
  - DCU values , environment , currents
  - 6 APV hybrids
- Is all data present and make it sense ?

## data test

- Are the values correct in respect to the expectation over a number of modules
  - Noise level
  - Pulse heights
  - LV currents , Bias currents
  - DCU values

To leave to users or take someone care of it.

## New developments (1)

- Multiplexer (software developed has to be tested with more than one module).
- Led test
- Optimize db storage for temperatures, humidity etc.
- Bar code with serial interface if needed
- Data base conformation
- Optimize cold box support ( like humidity control)

## Why other architecture (dim based)

- Software maintenance
- And
  - Dim servers where almost ready
  - Remote DAQ

# Conclusion

Depending on the beta test the software for two to four modules can be released before the CMS week.